

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph on page 7, lines 7-21, with the following amended paragraph:

The GUI 250 provides scroll bars 430 and 440 on the left and right panes 410 and 420. The scroll bars 430 and 440 can be used with a mouse 390 for moving around in the input code 110 and output code 130. If users scroll input code 110 displayed on the left pane 410, output code 130 displayed on the right pane 420 is automatically scrolled to display the output code 130 that corresponds to the input code 110 being displayed on the left pane 410. If the users scroll the input code 110 using the scroll bar 430 on the left pane, the scroll bar 440 on the right pane 420 also moves automatically in proportion to the amount of the movement in the scroll bar 430. In a same manner, if the users scroll output code 130 displayed on the right pane 420, the input code 110 on the left pane ~~420~~ 410 is also automatically scrolled to display the input code 110 that corresponds to the output code 130 being displayed on the right pane ~~410~~ 420. The illustrative embodiment of the present invention aligns the input code 110 and output code 130 displayed on the left and right panes 410 and 420, respectively, by the first lines 450 and 460 displayed on the panes 410 and 420. One of ordinary skill in the art will appreciate that the input code 110 and output code 130 displayed on the panes 410 and 420 may be aligned by other lines, such as middle and bottom lines of the panes 410 and 420.

Please replace the paragraph on page 9, lines 11-26, with the following amended paragraph:

FIGURE 6A is an exemplary GUI 250 that displays segments 610 and 620 in the input code 110 and output code 130 in the illustrative embodiment of the present invention. The illustrative embodiment of the present invention enables users to select a segment in one of the input code 110 and output code 130. If a segment 610 is selected in the input code 110 displayed on the left pane 410, a corresponding segment 620 is automatically selected in the output code 130 displayed on the right pane 420. In a same manner, if a segment 620 is selected in the output code 130 displayed on the right pane 420, a corresponding segment 610 is automatically selected in the input code 110

displayed on the left pane ~~420~~410. The segments 610 and 620 may be selected by moving a mouse 390 and clicking an index button of the mouse 390 on the corners of the segments. The selected segments 610 and 620 are displayed with a rectangular block. One of ordinary skill in the art will appreciate that the selected segments 610 and 620 may be highlighted so that the selected segments 610 and 620 can be easily distinguished from the rest of the input code 110 and output code 130. The selected segments 610 and/or 620 may also be edited to have a different font size, color and/or style than other code in the input and output code 110 and 130, which helps find the same segments 610 and 620 easily later.

Please replace the paragraph on page 11, lines 16-25, with the following amended paragraph:

Thus, if one or more elements are selected in the input code 110, the display tool 240 finds markup references of the input code elements in the segment 630 and searches output code elements that have same markup references as the input code elements in the segment 630. The output code elements that have same markup references as the input code elements are selected and highlighted in the segment ~~630~~640. One of ordinary skill in the art will appreciate that the output code 130 that has multiple cross-references including a same markup reference as the input code 110 in the segment 630 may or may not be included in the segment 640 depending on a design choice. One of ordinary skill in the art will also appreciate that the cross-references may be made to the output code 130 and corresponding input code 110, as described with reference to FIGURE 6A.

Please replace the paragraph on page 12, lines 22-31, with the following amended paragraph:

Thus, if multiple input code lines are included in the segment 650, the display tool 240 finds markup references of the input code lines in the segment 650 and searches output code 130 that has the same markup references as the input code lines in the segment 650. The output code 130 that includes a same markup reference as an input code line in the segment 650 is selected and displayed with a same color as the input code 110. One of ordinary skill in the art will appreciate that the output code 130 that

has multiple cross-references including same markup references as the input code lines in the segment 650 may or may not be included in the segment 660 depending on a design choice. One of ordinary skill in the art will also appreciate that the cross-references may be made to the output code 130 and corresponding input code 110, as described with reference to FIGURE 6A.

Please replace the paragraph on page 13, lines 1-15, with the following amended paragraph:

FIGURE 6D is another exemplary GUI 250 showing that a plurality of lines 651 and 652 are selected in the input code 110 displayed on the left pane 410. If users select a plurality of lines on the input code 110 or output code 130, corresponding lines are automatically selected in the output code 130 or input code 110. In this example, when the users select lines 651 and 652 on the left pane 410, corresponding lines 661 and 662 are selected on the right pane 420. Instead of displaying corresponding lines in the input and output code with a same color as depicted in FIGURE 6C, the lines 651 and 652 in the input code 110 and corresponding lines 661 and 662 in the output code are coupled through connection lines 671 and 672 to indicate that the coupled input and output code lines are corresponding to each other. One of ordinary skill in the art will appreciate that coupling of lines in the input code and corresponding lines in the output code 130 through the connection lines may be applied to the embodiment depicted in FIGURE 6A in which the users select a single line in the input code 110. One of ordinary skill in the art will also appreciate that the connection lines may include any other indicators that can imply that the corresponding input and output lines are related to each other, such as dotted lines.